	Application No.	Applicant(s)
Notice of Allowability	10/076,696	GERSTENBERGER ET AL.
	Examiner	Art Unit
	James A. Menefee	2828
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 12/1</u>	<u>8/2003</u> .	
2. A The allowed claim(s) is/are <u>1,3-8,10-17 and 19-23</u> .		
3. The drawings filed on 12 February 2002 are accepted by the		
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	been received.	
Certified copies of the priority documents have	been received in Application No	·
Copies of the certified copies of the priority doc	cuments have been received in this r	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
 Acknowledgment is made of a claim for domestic priority ur reference was included in the first sentence of the specifica (a) The translation of the foreign language provisional a 	tion or in an Application Data Sheet. oplication has been received.	37 CFR 1.78.
 Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application 		nce a specific reference was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t		
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 		
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No 		948) attached
(b) ☐ including changes required by the proposed drawing of color including changes required by the attached Examiner's		•
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin e margin according to 37 CFR 1.121(d	gs in the front (not the back) of l).
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR The 		
Attachment(s)		
1 ☐ Notice of References Cited (PTO-892)	5 Notice of Informal Pat	ent Application (PTO-152)
 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 3 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No 	6☐ Interview Summary (F	PTO-413), Paper No
	7☐ Examiner's Amendme	:nt/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statement 9⊡ Other .	Paul of PAUL IP
	SUPE TE	RVISORY PATENT EXAMINER CHNOLOGY CENTER 2800

U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03) Application/Control Number: 10/076,696

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DETAILED ACTION

Response to Amendment

In response to the amendment filed 12/18/2003, claims 1, 3-5, 8, 10-12, and 15 are amended, claims 2, 9, and 18 cancelled, and claims 19-23 added. Claims 1, 3-8, 10-17, and 19-23 are pending.

Allowable Subject Matter

Claims 1, 3-8, 10-17, and 19-23 are allowed. The following is an examiner's statement of reasons for allowance:

There is not taught or disclosed in the prior art an apparatus or method as claimed for producing uv light by frequency quadrupling a laser light. Particularly, there is not taught a cesium lithium borate (CLBO) crystal that is non-critically phase matched and cooled to a temperature of between -10 and -20 degrees centigrade. There is not taught or disclosed that the CLBO crystal will produce the particular output wavelength, or that it must be cooled as claimed.

Previously, the Examiner rejected the claims by asserting that the cooling may be done at such a level by the routine experimentation of one skilled in the art. The applicant's arguments on p. 9 of the response are persuasive in rebutting this argument. Further, due tot its hygroscopic nature, the prior art only discloses CLBO crystals used at temperatures much greater than those particularly claimed herein, typically greater than 100 degrees centigrade. This factor, as well as the fact that there are other variables in determining the optimum temperature, lead the Examiner

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to agree that it would require undue experimentation for one skilled in the art to cool this

particular crystal as claimed.

Any comments considered necessary by applicant must be submitted no later than the

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payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Response to Arguments

Applicant's arguments, filed 12/18/2003, with respect to the amended claims have been

fully considered and are persuasive. The rejections have been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James A. Menefee whose telephone number is (571) 272-1944.

The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Ip can be reached on (571) 272-1941. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

PAUL 1P

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

January 22, 2004